



VANCOUVER NANOMEDICINE DAY

2017

FRIDAY SEPTEMBER 29

Nanomedicine is an interdisciplinary research area within the scope of Nanotechnology. It has recently become increasingly important because it promises to develop medical technologies at the nanoscale, ranging from drug delivery carriers and imaging agents to nanomaterials and nanoelectronic biosensors. With this **Vancouver Nanomedicine Day 2017**, we would like to raise awareness of current work being done in the nanomedicine field and establish a collaborative network between researchers, postdoctoral fellows, graduate students, life science and startup biotechnology companies. We hope that this yearly event will catalyze and stimulate research collaborations in and around Vancouver in this important field.

REGISTRATION (Coffee provided)

8:30 AM

WELCOME TO THE NANOMEDICINE DAY - Prof. Urs Hafeli, Pharmaceutical Sciences, UBC

9:00 AM

"Assesment of the Biodistribution of Aluminum-Based Vaccine Adjuvants using $^{111}\text{In}/^{115}\text{In-AIO}(\text{OH})$ " - *Tullio Esposito, Pharmaceutical Sciences, UBC*

9:10 AM

INVITED TALK

"Protein-Based Synthesis of Inorganic Nanostructures for Biology and Medicine"

Prof. François Baneyx, University of Washington, Chemical Engineering, Seattle, U.S.A

9:30 AM



BREAK (Refreshments provided)

10:20 AM

"On-Chip Study of Lipid Nanoparticle Absorption in Tumour Spheroids" - *Karen Cheung, Electrical and Computer Engineering, UBC*

10:50 AM

"New Tools for the Delivery of RNA to Platelets" - *Stefanie Novakowski, Michael Smith Laboratories, UBC*

11:10 AM

"Lipid Nanoparticles co-Loaded with siRNA and Taxane Prodrugs for Combination Treatment of Prostate Cancer" - *Roy van der Meel, Department of Biochemistry and Molecular Biology, UBC*

11:30 AM

"CRISPR: Background and Potential Role in Nanomedicine" - *Colin Ross, Pharmaceutical Sciences, UBC*

11:50 AM

LUNCH (Provided)

12:10 AM

INVITED TALK

"Magnetic Particle Imaging: Fundamentals and Applications in Cancer, Cardiovascular and Stroke Imaging" *Prof. Kannan Krishnan, Univ. of Washington, Dept. of Material Sciences & Engineering and Physics, Seattle, U.S.A*

1:00 PM



"Development of Messenger RNA Lipid Nanoparticles as Next Generation Vaccines" - *Ying Tam, Accutis Therapeutics, Vancouver, BC*

1:50 PM

"Osteoregeneration of Critical Size Defects Using a Combination of New Chitosan-Based Nanoparticles" - *Horacio Bach, Fac. of Medicine, Division of Infectious Diseases, UBC*

2:10 PM

BREAK (Refreshments provided)

2:30 PM

"Introduction to the National Institute for Nanotechnology" - *Marianna Kulka, NINT, Edmonton, AB*

2:35 PM

"Liposomal Therapy Protects Host Cells from Necrosis Induced by Community-Associated Methicillin-Resistant Staphylococcus Aureus and Pseudomonas Aeruginosa" - *Heidi Wolfmeier, Dept. Microbiology & Immunology, UBC*

2:50 PM

INVITED TALK

"Complexity of Nanoparticles Targeting in Solid Tumours" *Prof. Warren Chan, Univ. of Toronto, Chemistry Department, Canada*

3:20 PM



"The Future of Nanomedicine in British Columbia" - *Pieter Cullis, Dept. of Biochemistry and Molecular Biology, UBC*

3:40 PM

POSTER SESSION (Beer and Pretzels provided)

4:20 PM

UBC Nanomedicine Planning Meeting (closed meeting) - *Pieter Cullis, Urs Hafeli*

4:20 PM

POSTER PRIZES / END OF MEETING

5:50 PM

EVENT DETAILS

Date	Friday September 29, 2017
Time	9 AM - 5:30 PM
Location	Vancouver Alpen Club 4875 Victoria Drive, Vancouver, BC Canada V5N 4P3
Access	Bus #33 directly from UBC Bus #20 from downtown (9 stops from the Commercial Broadway station)

POSTER SESSION

There will be a poster session from 4:30 - 5:30 PM, where we will hand out cash prizes of \$300, \$200 and \$100 for the best posters.

For free registration, please go online to www.nanomedicine.ubc.ca we are looking forward to your participation!

We appreciate very much our sponsors who provide this **Vancouver Nanomedicine Day** including all the food for free to registered participants.



a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA

Faculty of Pharmaceutical Sciences



The Centre
for Drug Research
and Development



THE UNIVERSITY OF BRITISH COLUMBIA

School of Biomedical Engineering
Faculties of Applied Science and Medicine



NanoMedicines
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Better lives through
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NEED MORE INFORMATION?

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